

71-9044



# GENERAL ELECTRIC

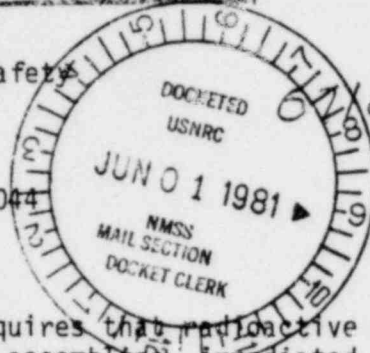
NUCLEAR ENERGY  
ENGINEERING *PDR*  
DIVISION *Return to D. Cramer*  
*396-55*

GENERAL ELECTRIC COMPANY, P.O. BOX 460, PLEASANTON, CALIFORNIA 94566

Application No.	741862
Contract No.	7150-11B
Project No.	admin
Issue Date	7/21/81
Revision No.	weir
Revision Date	AMF/1-1

February 20, 1981

Mr. C. E. MacDonald, Chief  
Transportation Certification Branch  
Division of Fuel Cycle and Material Safety  
U. S. Nuclear Regulatory Commission  
Washington, D. C., 20555



Ref: Certificate of Compliance No. 9044

Dear Mr. MacDonald:

Certificate of Compliance No. 9044 requires that radioactive material be in the form of fuel rods or plates, fuel assemblies, irradiated solid metal hardware, or meeting the special form requirements of 10CFR71.4(o). Accordingly, General Electric-VNC is developing methods to provide enhanced containment and immobilization of normal form contents by encapsulation and/or impregnation.

Our best schedule estimate for a process system to impregnate and immobilize this normal form waste would have the system operational at the end of June, 1981. Details of this system which uses a cement type grout to solidify and bond the waste contents in a modified DoT 17H drum have been discussed with your staff, and preliminary concurrence has been reached on methods of demonstrating compliance with 10CFR71.

Although good progress is being made on the new process system, the Building 102 hot cell complex has developed an accumulation of waste material which will shortly imperil continued operation of that complex. The facility generates approximately eleven cubic feet of normal form waste each month (one load for the G.E. Model 1600 shipping container). No waste shipments have been made since August, 1980.

Accordingly, GE-VNC requests permission to proceed with normal form waste shipments in the G.E. Model 1600 container until July 1, 1981, subject to the following restrictions.

The waste will be placed in an inner container which will be either a standard DoT 17H metal drum or an extended 17H type drum. Shoring will be installed, as required, to restrict movement of the standard drum in the cask cavity (the extended drum is approximately 51 inches in length by 24 inches in diameter). The drums are equipped with gaskets and will be sealed. All of the drums have been leak-tested and have demonstrated a leak rate of less than  $1 \times 10^{-3}$  atm-cm<sup>3</sup>/sec.

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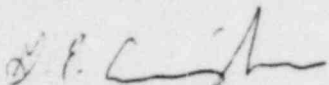
Mr. C. E. MacDonald

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February 20, 1981

The type of waste to be shipped is general hot cell waste and includes equipment, metal tubing, solid byproduct materials (e.g., Co-60, IR-192, etc.) in 2-R type containers, compacted wastes (paper, wipes, etc.), melted plastics (in metal cans), salts from neutralized HCl, and glassware. The chief contaminants are Co-60, Cs-137, and mixed fission products. No trans-uranics are present.

A check for the \$150.00 fee will be forwarded under separate cover.



G. E. Cunningham  
Senior Licensing Engineer

/jp

Docket No. 71-9044

William O. Miller  
License Fee Management Branch  
Office of Administration

MATERIALS TRANSPORTATION APPROVAL CLASSIFICATION

Applicant: GE  
App No: 9044 Fee Category 11B  
App Dated: 2-20-81 Received: 2-25-81  
Applicant's Classification: Administrative

The above application for amendment has been reviewed by the NMSS Transportation Branch, in accordance with Section 170.31, and is classified as follows:

1. Amendments to Approvals in Fee Categories 11A through 11E

- (a)  Major
- (b)  Minor
- (c)  Administrative

2. Justification for reclassification: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. The application was filed (a)  pursuant to written NRC request and the amendment is being issued for the convenience of the Commission, or (b)  Other (State reason): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Signature: R. J. [Signature]  
Transportation Branch, NMSS  
Date: 3/2/81